

What is claimed is:

1. A polypeptide sequence comprising the amino acid sequence of SEQ ID NO:1 with at least one amino acid substitution at a location selected from the group consisting of L31, N34, F35, I38, L42, I48, V49, and L52.
2. The polypeptide sequence of claim 1, wherein the substitution is with a non-hydrophobic amino acid.
3. The polypeptide sequence of claim 1, wherein the substitution is with an amino acid selected from the group consisting of alanine and glycine.
4. The polypeptide sequence of claim 3, wherein substitutions are made at L31 and N34.
5. The polypeptide sequence of claim 1, wherein the polypeptide is linked to a compound to be targeted to a sarco(endo)plasmic region of a cell.
6. The polypeptide sequence of claim 1, wherein the polypeptide is linked to a macromolecule to be targeted to a sarco(endo)plasmic region of a cell.
7. The polypeptide sequence of claim 4, wherein the polypeptide is linked to a macromolecule to be targeted to a sarco(endo)plasmic region of a cell.
8. A polypeptide sequence comprising the amino acid sequence of SEQ ID NO:2.
9. The polypeptide sequence of claim 8, wherein the polypeptide is linked to a compound to be targeted to a sarco(endo)plasmic region of a cell.
10. The polypeptide sequence of claim 7, wherein the polypeptide is linked to a macromolecule to be targeted to a sarco(endo)plasmic region of a cell.
11. A nucleic acid comprising a nucleotide sequence encoding the polypeptide sequence of SEQ ID NO:1 with at least one codon substitution encoding an amino acid substitution at an amino acid location selected from the group consisting of L31, N34, F35, I38, L42, I48, V49, and L52.
12. The nucleic acid of claim 11, wherein the codon substitution encodes a non-hydrophobic amino acid
13. The nucleic acid of claim 11, wherein the codon substitution encodes an amino acid selected from the group consisting of alanine and glycine.

14. The nucleic acid of claim 11, wherein the nucleotide sequence is linked to a second nucleotide sequence encoding a protein to be targeted to a sarco(endo)plasmic region of a cell.
- 5 15. A nucleic acid comprising a nucleotide sequence selected from nucleotide sequences represented by SEQ ID NOS:3, 4, 5, and 6.
16. The nucleic acid of claim 15, wherein the nucleotide sequence is linked to a second nucleotide sequence encoding a protein to be targeted to a sarco(endo)plasmic region of a cell.